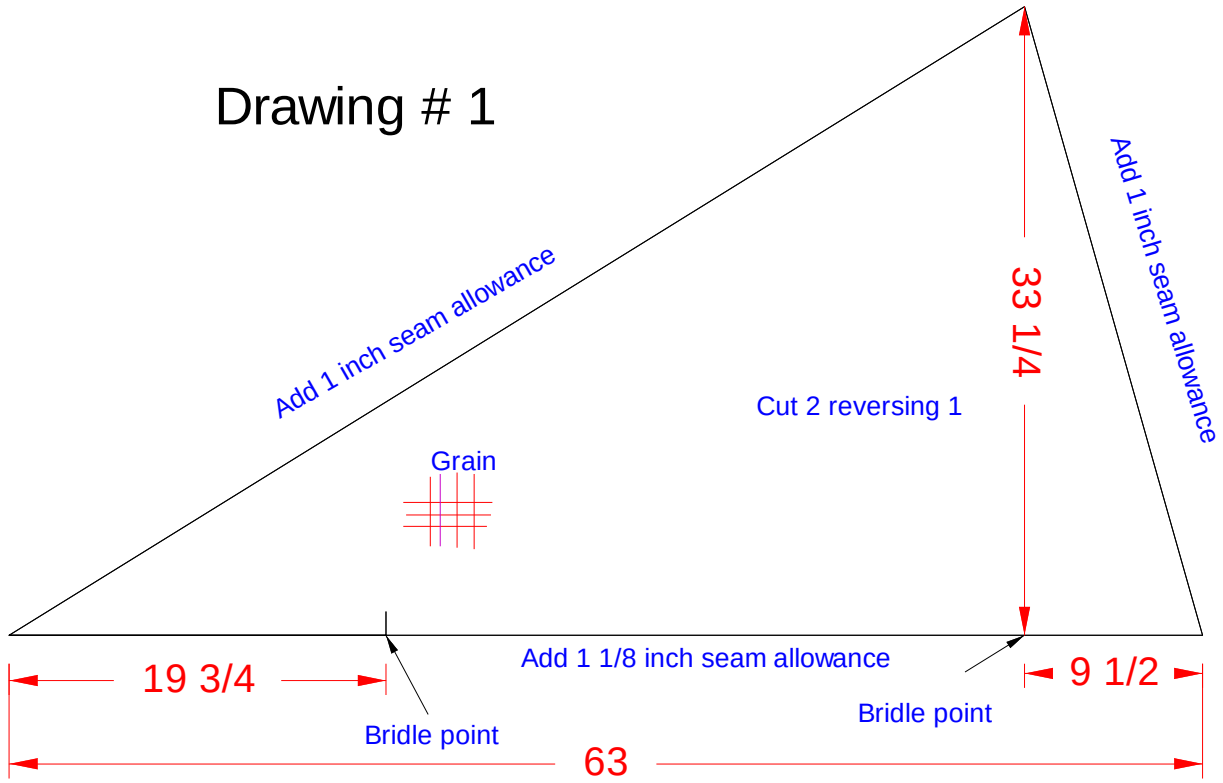
Malay Building Instructions

Material needed (you can use other size spars, I happened to have J65's on hand):

Ripstop 2 yards
J65 x 4 Fiberglass Hallow Spars, 32 1/2 "long
1 - J65 internal connector (I used 4" piece of RET 30 from the Kite Studio)
1 Dihedral, bent 30^0 in center to fit J65 Spar
4 Vinyl end caps for J 65 Spar, Vinyl End Cap - .312", 5/16"
125# Dacron Line 85 inches for Bridle
Fabric for Reinforcement
Aluminum Rings 3 needed
Bridle/Tail Fabric for Holders 1" X 30"
8" x 70" fabric for bag.

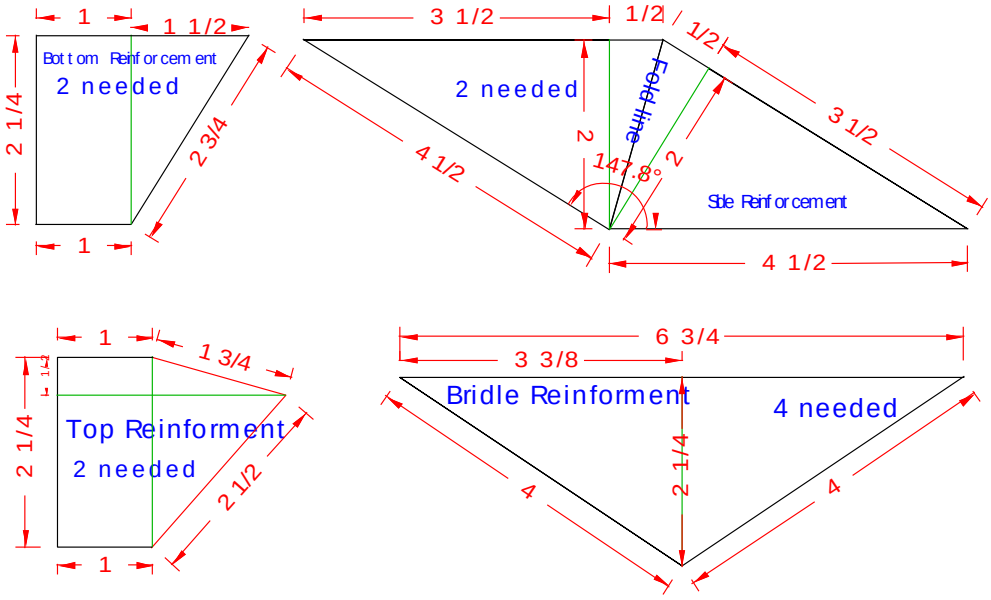
Fabric Cutting (All measurements are in inches):

1) Cut out and mark 2 pieces as per sail pattern, reversing 1 making sure to add seam allowance on all 3 sides, drawing #1.



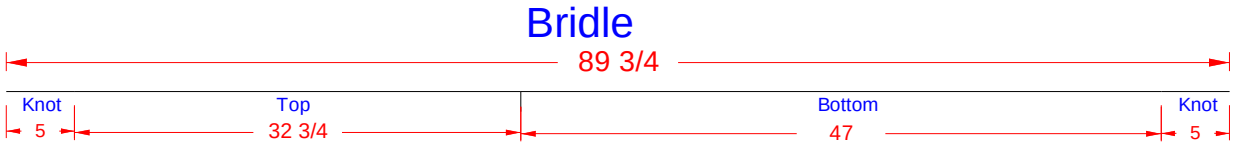
2) Cut out the 2 each of the top, bottom and side reinforcements, reversing 1 each. Drawing #2.

3) Cut out 4 each of the bridle reinforcement, reversing 2. Drawing #2.



Drawing # 2

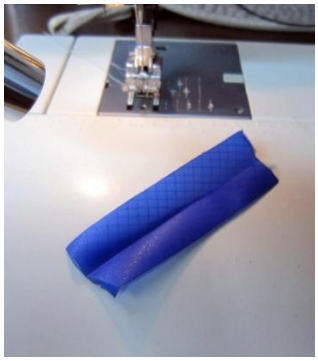
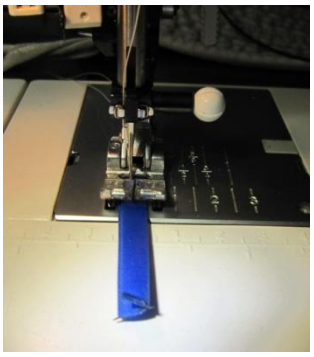
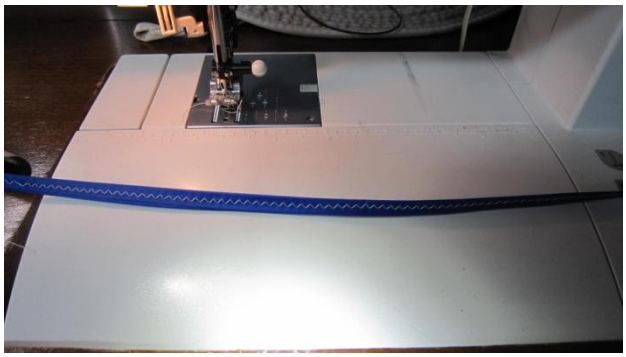
4) Cut out and mark the bridle, use 125# Dacron Line. Drawing #3



Drawing # 3

Construction:

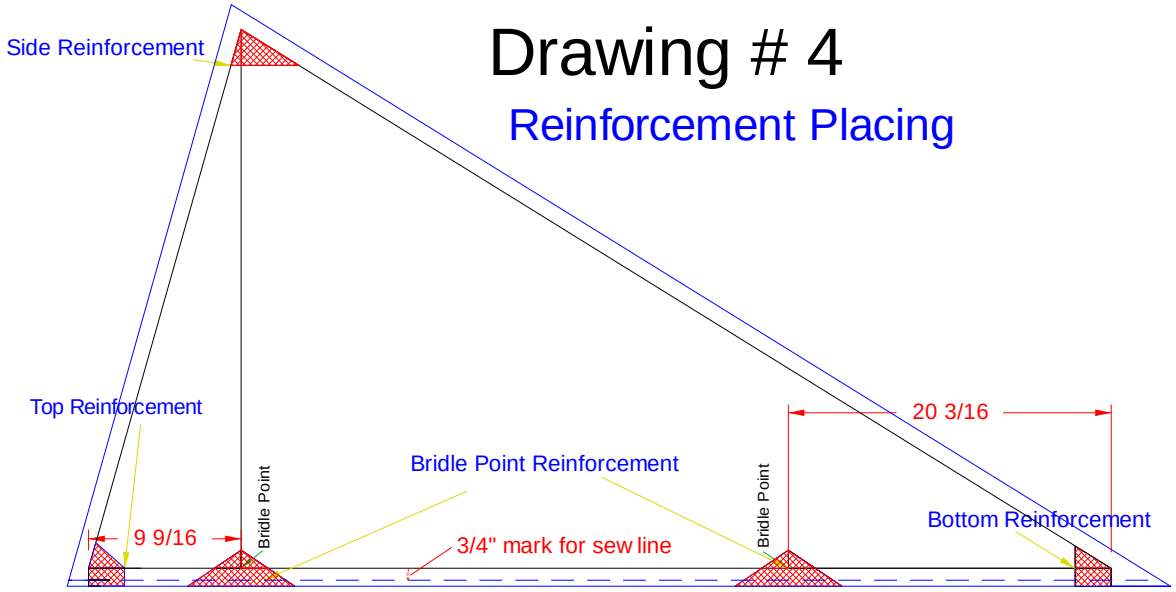
Preparing of Tail and Aluminum Ring Holder:

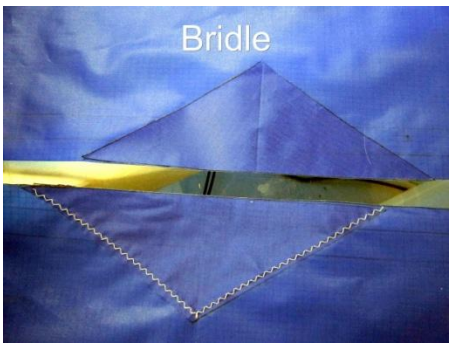
1) Fold in half lengthwise

2) Fold in half lengthwise again put cut edges into center
3) Sew along in the center lengthwise, no need to sew 1st and last inch. I found out the sewing machine tries to eat it otherwise
4) Cut sewn part into 3 pieces, 3 " long, 3 1/2" long and 16"
5) Fold each in half widthwise, example: 16" finished length is 8"

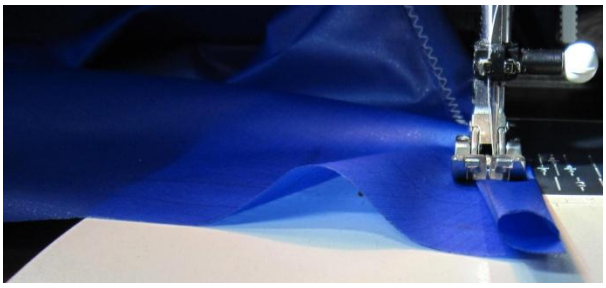
Mail Sail:



1) Mount and sew all reinforcements where indicated other that the side reinforcements on the back side of sail. Drawing 4.

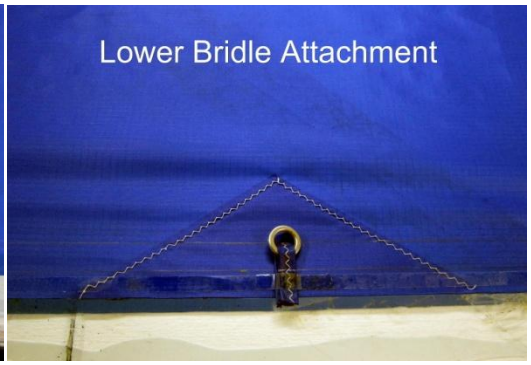


2) Double fold each of the outer edges of the sails forming a ½" edge around the edge on the back side. Do this for both trimming excess at corners. Drawing 4.
3) Fold side reinforcement in half. Align folded half with corner where spreader will go, sew the part on the interior of



the kite first. Fold other half on top of this and sew along the kite edges to form the pocket. (see photos)

4) Place 1 sail back side down on work surface. Place 16" aluminum ring holder with ring added at top bridle point placing it ½" into this seam, see photo. Repeat for lower bridle point with 2" aluminum ring holder with ring in place. Align 2nd half of sail on top of first with good side down. Sew both sides together 3/8" from edge on ¾" sew line from drawing 4



   a. . (I use seamstick to hold everything together)
5) Open up sail
6) Align both halves with backsides together.
7) Sew ¾" from edge to form spar pocket stopping 1 ½" from bottom leaving room to insert spars, this is where the bottom spar pocket starts.
8) Sew top of sail shut forming the top of the spar pocket
9) Insert folded in half tail holder past bottom reinforcement bottom.
   a. Sew this from bottom of spar reinforcement to tip of sail.

10) Sew bottom of reinforcement to form bottom of spar pocket.

Assembly:

1) Fit and insert center spar by inserting it opening of bottom of sail all the way to the top.
2) Assemble and tie spreader making sure both sides of the spreader are equal in length, cutting may be necessary.
3) Tie bridle to rings making sure to have the short part of the bridle attached to the top ring.

You are now ready to fly, enjoy!!!

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Plans written February 2011 for workshop given by Mike Dallmer to the South Jersey Kite Flyers